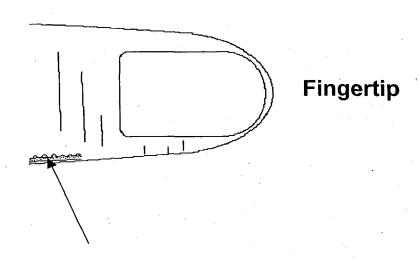
Sheet 1 of 19 Filed: HEREWIT Title: Non-invasive measurement of analytes Inventors: Workman and Lambert Mintz, Levin, Cohn, Ferris, Glovsky and Popeo; Telephone: (617) 542-6000

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Reporter and Marker colors

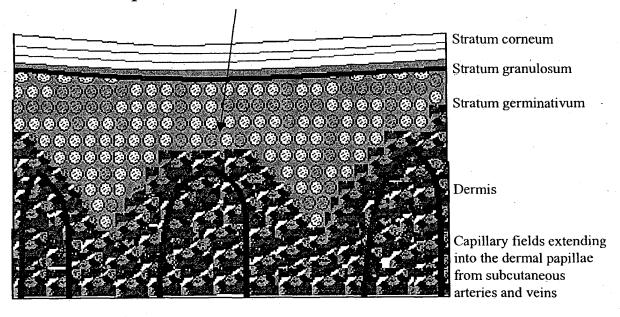
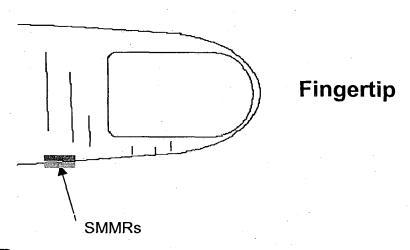


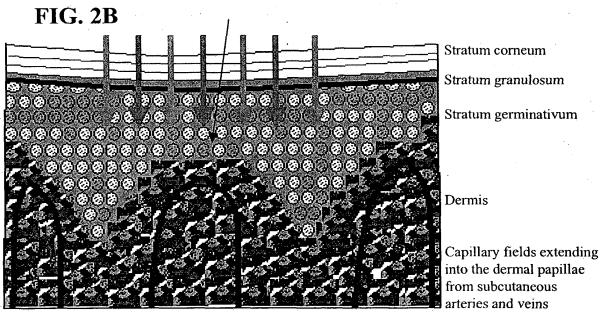
FIG. 1

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FIG. 2A

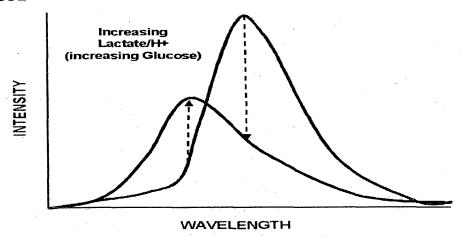


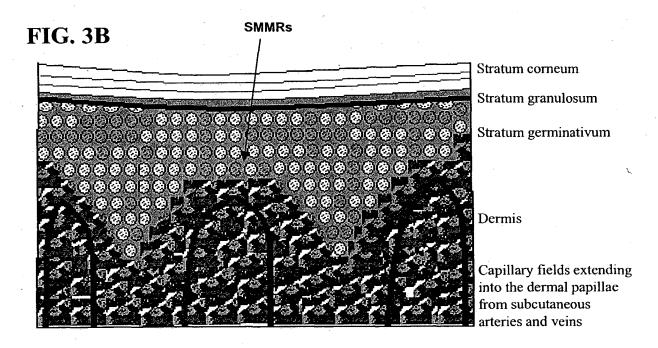


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FIG. 3A





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FIG. 4A

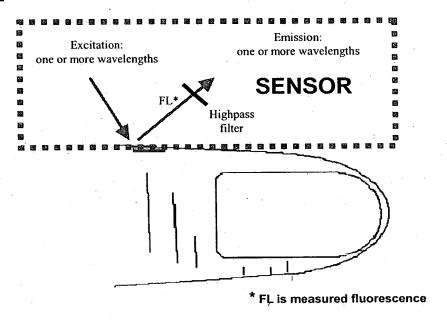
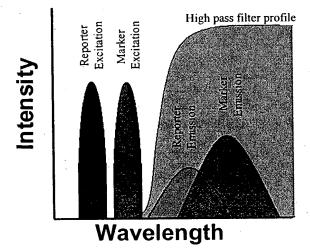


FIG. 4B



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FIG. 5A

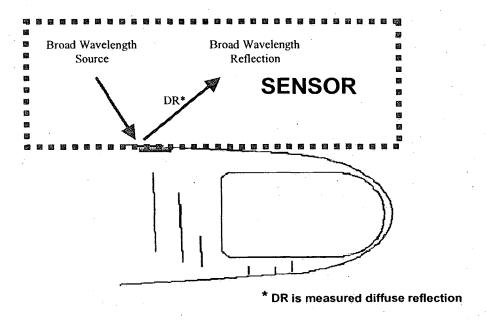
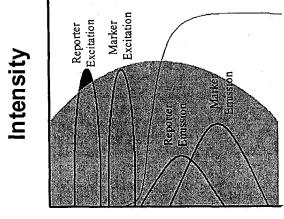


FIG. 5B



Wavelength

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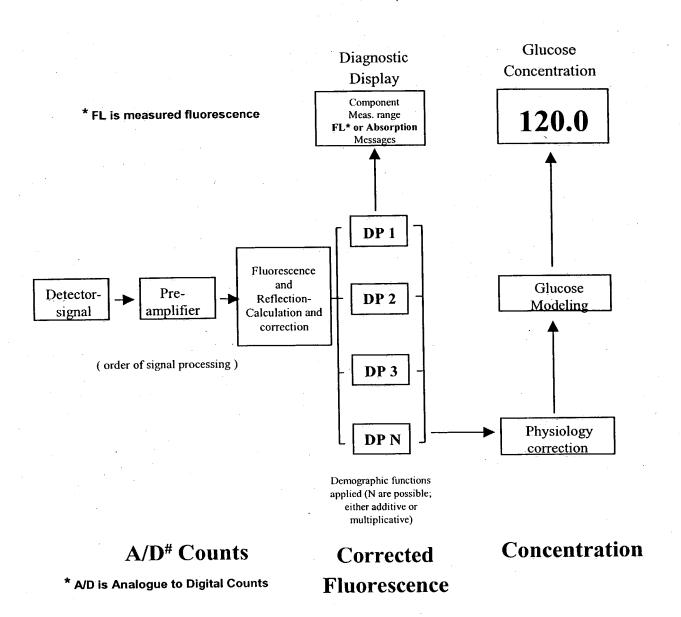


FIG. 6

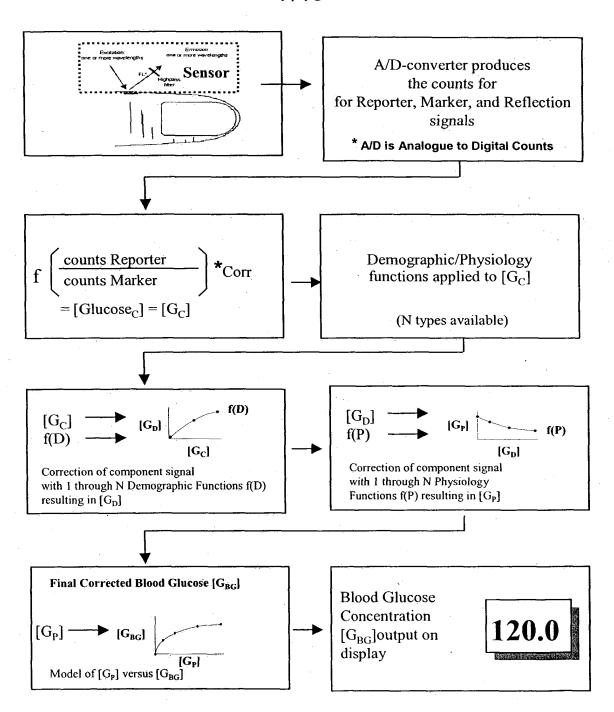


FIG. 7

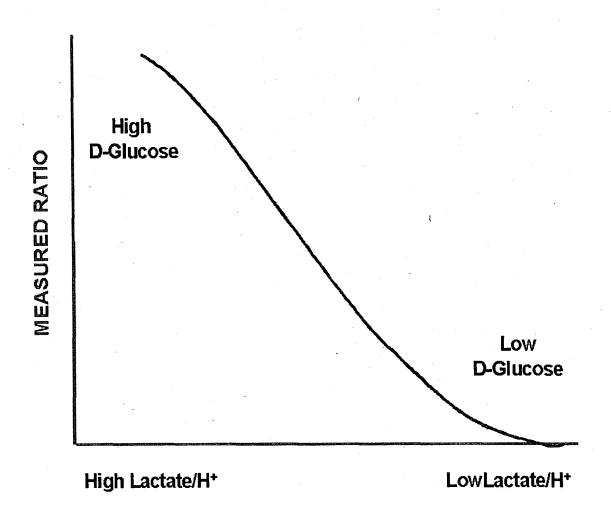


FIG. 8

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FIG. 9A

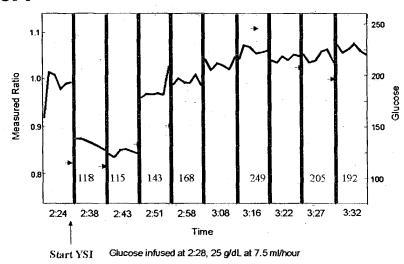
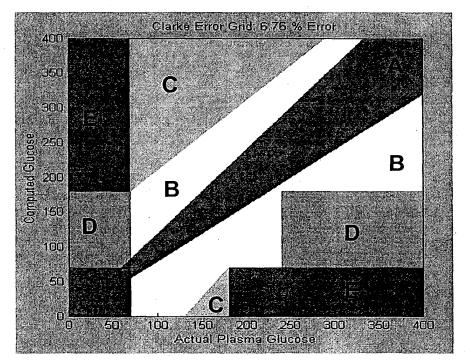


FIG. 9B



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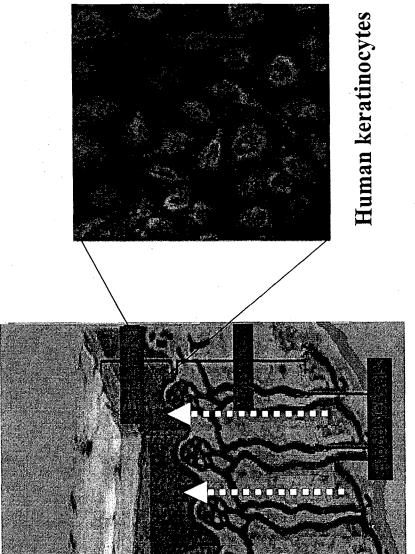
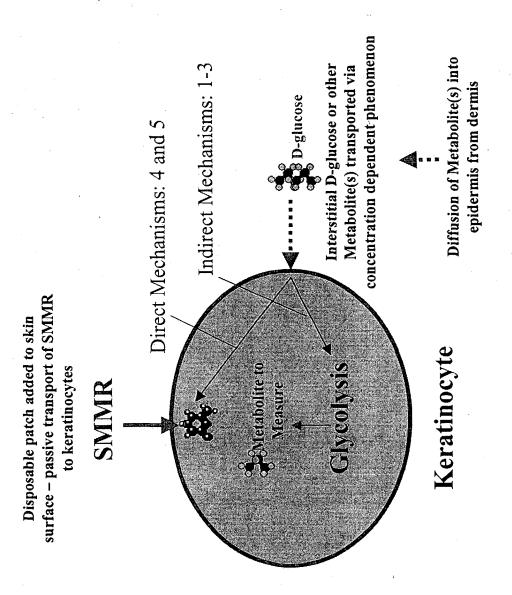
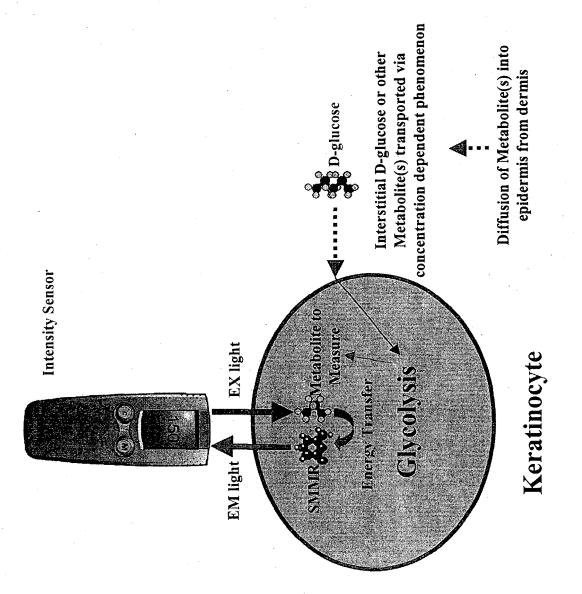


FIG. 10A

Human skin

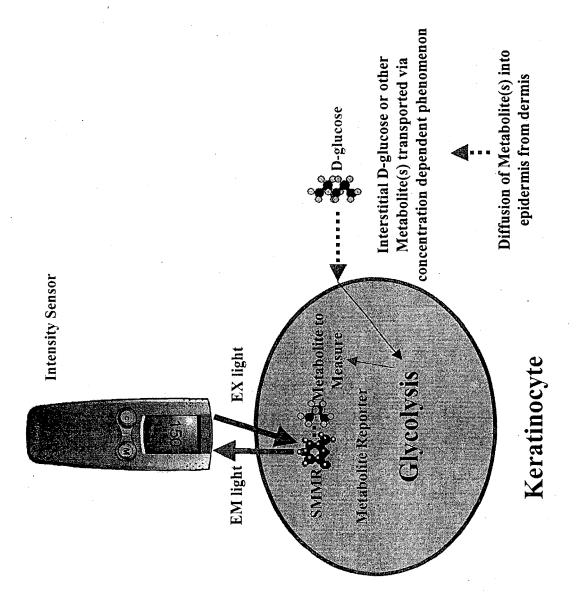


Sheet 12 of 19
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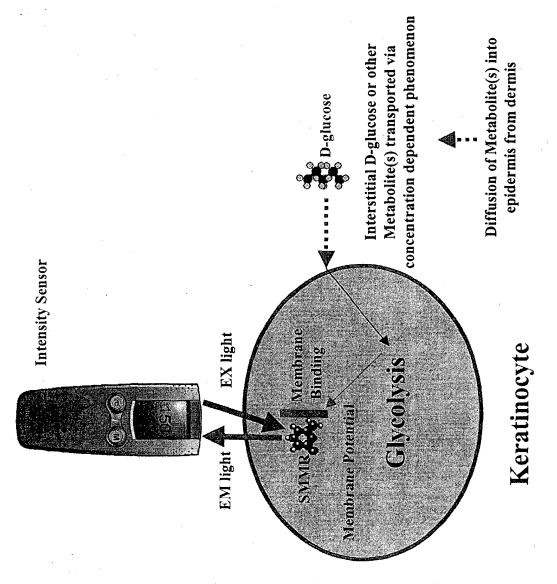


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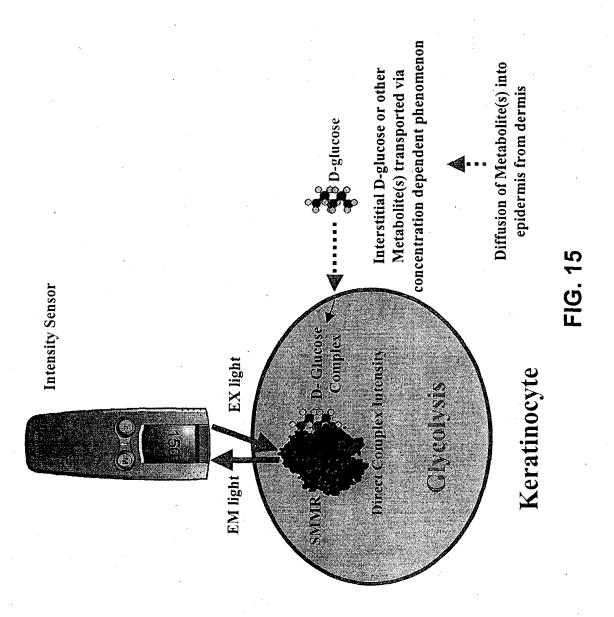
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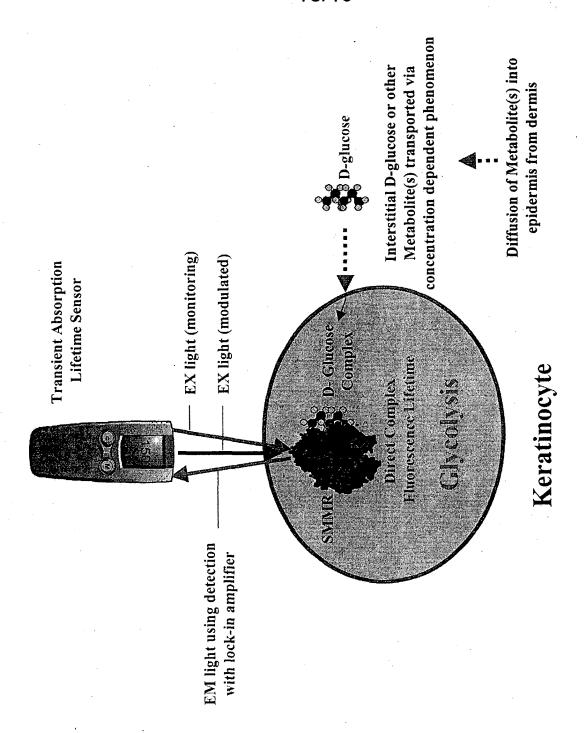


FIG. 16

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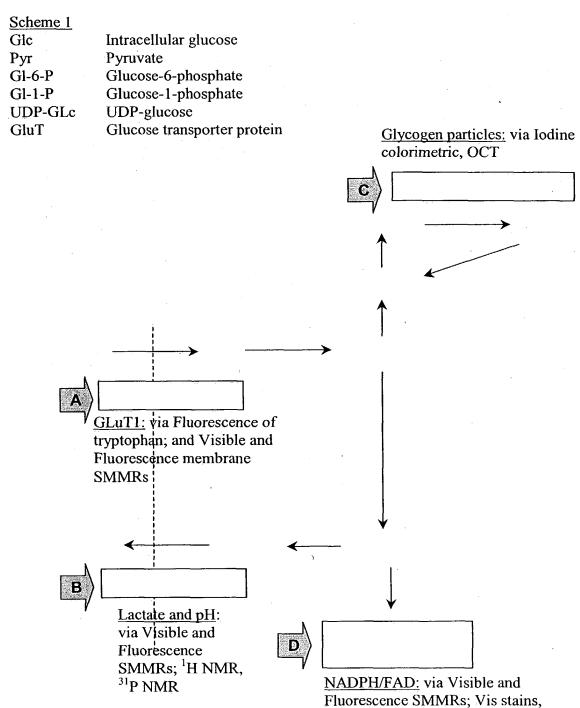
Title: Non-invasive measurement of analytes

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FIG. 17A



³¹P NMR

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FIG. 17B

Scheme 2. Overview of metabolic pathways for glucose in epidermis

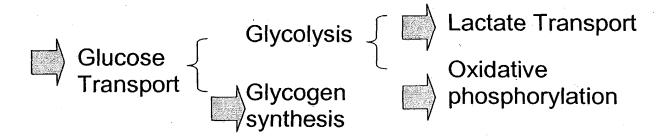


FIG. 17C

Scheme 3. Structure of generic pH sensitive dye for specific action as a lactate/H⁺ SMMR

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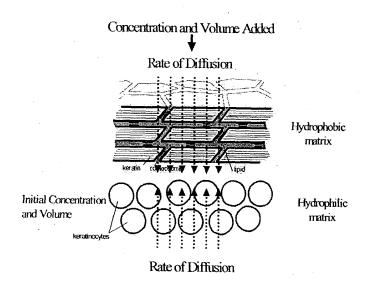
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Scheme 4. In Vivo Calibration Issues

FIG. 17D

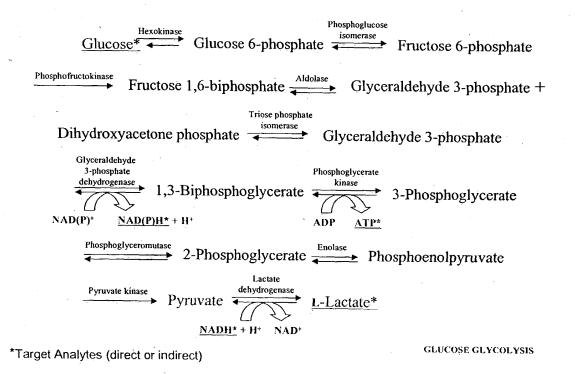


FIG. 18